

CRITICAL ITEMS LIST

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REFERENCE DESIGNATOR: N/A
 NAME/QUANTITY: P/N, QUICK RELEASE /1
 DRAWING REFERENCE: ST2BP15B3-36

PROJECT PAD
 LRU NAME/QUANTITY: PAD ASSEMBLY /1
 LRU PART NUMBER: 10159-10051-01

SUBSYSTEM: N/A
 EFFECTIVITY: ALL ORBITERS

FAILURE MODE NUMBER PAD-004	CRITICALITY 2/2	FAILURE EFFECT	RETENTION RATIONALE
FUNCTION Lock PFR in PAD		END ITEM Unable to lock PFR in PAD	A. DESIGN: Quick release pin is a purchased item identified by a military P/N. It is fabricated from misc. stainless steels. Sleeve - 17-4 PH S/S, shaft - 303 S/S, balls - 440 S/S. PAD is 15-5 PH S/S and the pin is 17-4 PH S/S. Pin hole and pin fit loosely.
FAILURE MODE AND CAUSE <u>Mode:</u> Will not go in <u>Cause(s):</u> Contamination, galling		MISSION Unable to perform EVA task	B. TEST: <ul style="list-style-type: none"> • PDA <ul style="list-style-type: none"> - Functional checkout and test - Check for interface with striker bar and PFR • Certification <ul style="list-style-type: none"> - Vibration test to certification plan requirements for 1 minute per axis (minimum) - Functional test at - 180 °F - Thermal analysis performed at + 200 °F to verify proper tolerances
REDUNDANCY SCREENS	REMAINING PATHS		
A - N/A B - N/A C - N/A	N/A		
MISSION PHASE	TIME TO EFFECT	TIME TO CORRECT	INTERFACE
On-orbit	Immediate	N/A	None

(Concluded on next page.)

PREPARED BY: D.A. Crouch

REVISION:

SUPERSEDING DATE:

DATE: 8/11

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ATTACHMENT
5040370

CRITICAL ITEMS LIST

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REFERENCE DESIGNATOR: N/A
 NAME/QUANTITY: PIN, QUICK RELEASE /1
 DRAWING REFERENCE: ST28P1583-36

PROJECT: PAD
 LRU NAME/QUANTITY: PAD ASSEMBLY /1
 LRU PART NUMBER: 10159-1D053-#1

SUBSYSTEM: N/A
 EFFECTIVITY: ALL ORBITERS

FAILURE MODE NUMBER PAD-004 (Concluded)	CRITICALITY 2/2	RETENTION RATIONALE (CONCLUDED)
C. INSPECTION: <ul style="list-style-type: none"> • Manufacturing <ul style="list-style-type: none"> - Inspect dimensions, workmanship, and configuration for conformance to drawing and cleanliness requirement (generally clean) • PDA <ul style="list-style-type: none"> - Inspect for damage or material degradation - Verify successful completion of interface test - Verify dimensions, workmanship, and configuration conformance to drawing and cleanliness requirement (generally clean) • PIA <ul style="list-style-type: none"> - Inspect for damage; and to ensure proper installation, verify that knob is torqued to 20 - 40 in-lb and that lock is engaged 	F. OPERATIONAL USE: <ul style="list-style-type: none"> • Crew must insert pin to latch PFR to PAD • No other crew actions are necessary to latch PFR to PAD 	

PREPARED BY: D. A. Crouch

REVISION:

SUPERSEDED DATE:

DATE 8/91

5040237D
 ATTACHMENT
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